

Application No.: 08/977,846

2

Docket No.: 549222000101

**AMENDMENTS TO THE CLAIMS**

Claim 1 (original): A receiver adapted to receive data contained in a transmitted broadcast signal comprising: a tuner for receiving a broadcast signal;  
a memory coupled to the tuner for storing data in the received broadcast signal in a database;  
a user interface for providing a set of menus describing the database, and for accepting selections from the set of menus;  
a controller coupled to the memory and the user interface for selecting data from the database in response to the accepted selections and providing the selected data in a digital form; and  
a speech producing sub-system coupled to the controller and the memory for converting the selected data from digital form to an analog signal.

Claim 2 (withdrawn): The device of Claim 1, wherein the tuner extracts data from an FM broadcast radio station carrier.

Claim 3 (withdrawn): The device of Claim 1, wherein the tuner extracts data from a television broadcast station carrier.

Claim 4 (withdrawn): The device of Claim 3, wherein the tuner extracts data from a vertical blanking interval of the broadcast television station carrier.

Claim 5 (withdrawn): The device of Claim 3, wherein the tuner extracts data from a Separate Audio Programming channel of the television station carrier.

Claim 6 (withdrawn): The device of Claim 1, wherein the memory stores the entire database.

Claim 7 (withdrawn): The device of Claim 1, wherein the memory comprises a combination of a volatile RAM memory and a non-volatile memory.

Claim 8 (withdrawn): The device of Claim 7, wherein the non-volatile memory is selected from the group consisting of a audio tape, a magneto-optical mini-disk, a magnetic disk or an optical disk.

Claim 9 (withdrawn): The device of Claim 1, wherein the received data is audio data that has been converted from analog form to digital form.

pa-937805

Application No.: 08/977,846

3

Docket No.: 549222000101

Claim 10 (withdrawn): The device of Claim 9, wherein the received digitized audio data is digitized and has been compressed.

Claim 11 (withdrawn): The device of Claim 9, wherein the digitized audio data has been encrypted.

Claim 12 (withdrawn): The device of Claim 1, wherein the received data is alphanumeric data that has been converted from analog form to digital form.

Claim 13 (withdrawn): The device of claim 12, wherein the alphanumeric data is converted to voice data by a speech synthesizer.

Claim 14 (withdrawn): The device of Claim 1, wherein the extracted data is in digital form, has been encrypted and compressed, and further comprising a decryptor for providing conditional access and decrypting the extracted data.

Claim 15 (withdrawn): The device of Claim 14 wherein said system has a decompression algorithm to decompress data that has been compressed at a transmitter.

Claim 16 (withdrawn): The device of Claim 14, wherein the decryptor is enabled by a key received by the tuner.

Claim 15 (withdrawn): The device of Claim 14, wherein the decryptor is enabled by a key device operatively connected to the decryptor.

Claim 17 (withdrawn): The device of Claim 1, wherein the user interface is voice activated.

Claim 18 (withdrawn): The device of Claim 1, wherein the user interface includes:

- a manual input device adapted to be mountable on an automobile steering wheel; and
- a link from the manual input device to the controller.

Claim 19 (withdrawn): The device of Claim 1, wherein the user interface includes a control for determining a speed at which the speech output device outputs the analog signal.

Claim 20 (withdrawn): The device of Claim 1, wherein the tuner includes means for channel skip tuning to a particular transmitter.

Claim 21 (withdrawn): The device of Claim 1, further comprising:

- an amplifier connected to the speech producing device for amplifying the analog signal; and

- means for converting the amplified signal to sound.

pa-937805

Application No.: 08/977,846

4

Docket No.: 549222000101

Claim 22 (withdrawn): The device of Claim 1, further comprising means for connecting the receiving system to an automobile radio set.

Claim 23 (withdrawn): The device of Claim 1, further comprising means for designating by the broadcaster a hierarchy for the database.

Claim 24 (withdrawn): The device of Claim 1, wherein a power saving technique comprises storing said digital data received in a RAM memory up to the capacity of the RAM before transferring said digital data to a storage means from the group consisting of disk medium or tape medium.

Claim 25 (withdrawn): The device of Claim 24, wherein said tape medium is a digital audio tape.

Claim 26 (withdrawn): The device of Claim 24, wherein said disk medium is a magnetic disk.

Claim 27 (withdrawn): The device of Claim 24, wherein said disk medium is a magnetic-optical disk.

Claim 28 (withdrawn): The device of Claim 24, wherein said disk medium is an optical disk.

Claim 29 (withdrawn): The device of Claim 1, wherein a speed of transmission of said data can be varied to most efficiently use the available bandwidth.

Claim 30 (withdrawn): A method for information dissemination using various modes of transmission for transmitting alphanumeric or audio data comprising the steps of:

- converting said audio to digital audio data;
- converting said alphanumeric data to digital alphanumeric data;
- establishing a data base of digitized data with menus for selection of particular segments of said data base;
- compressing said digital audio data;
- encrypting said compressed digital data;
- encrypting said digitized alphanumeric data;
- selecting between digital alphanumeric data and compressed audio data;
- transmitting said selected data;

pa-937805

Application No.: 08/977,846

5

Docket No.: 549222000101

extracting the data from the transmitted signal; providing a memory;  
storing the extracted data in the memory as a database;  
providing a set of menus describing the database;  
selecting items from the set of menus;  
providing portions of the stored data in response the selected items from said  
menus;

decrypting said encrypted data;  
selecting digitized alphanumeric data or compressed data;  
decompressing said compressed digital data;  
converting the provided portions from the digital form to an first analog  
signal representing audio signals;  
converting alphanumeric digitized data to second analog signal representing  
spoken words; and  
outputting said first and second analog signals for human hearing.

Claim 31 (withdrawn): A receiver comprising:

means for extracting data from a transmitted signal;  
means for storing the extracted data as a database;  
means for providing a set of menus describing the database, and for accepting  
selections from the set of menus;  
means for selecting data from the database in response to the accepted  
selections;  
means for providing the selected data in encrypted, compressed and digital  
form;  
means for decrypting the selected data;  
means for decompressing the decrypted data;

Claim 32 (withdrawn): A system for information dissemination using various modes of  
transmission to transmit audio data comprising:

a data producing sub-system for converting analog audio information to  
digital data and a database with menus;

pa-937805

Application No.: 08/977,846

6

Docket No.: 549222000101

a data compressor for compressing the encrypted audio data; and  
an encryptor for encrypting the digital audio data;  
a means for inserting the compressed encrypted digital audio data into a  
transmission channel;  
a tuner means for receiving the transmitted compressed encrypted digital  
audio data;  
a memory means for storing the selected data in the database;  
a means for providing a set of menus to a user describing the database, and a  
means for updating the data in the database.

A controller means for selecting data from the database in response to the  
accepted selections and providing the selected data in the encrypted compressed digital  
form; and

A decrypting means for decrypting the encrypted compressed digital audio  
data;

A decompressing means for decompressing the compressed digital audio  
data; and

A means for converting the digital audio data to analog audio data  
representing the audio originally transmitted.

Claim 33 (currently amended): The device receiver of Claim 1, wherein the memory stores  
the entire database.

Claim 34 (currently amended): The device receiver of Claim 1, wherein the memory  
comprises a combination of a volatile RAM memory and a non-volatile memory.

Claim 35 (currently amended): The device receiver of Claim 34, wherein the non-volatile  
memory is selected from the group consisting of an audio tape, a magneto-optical mini-disk, a  
magnetic disk or an optical disk.

Claim 36 (currently amended): The device receiver of Claim 1, wherein the received data is  
audio data that has been converted from analog form to digital form.

pa-937805

Application No.: 08/977,846

7

Docket No.: 549222000101

Claim 37 (currently amended): The device receiver of Claim 36, wherein the received audio data is digitized and has been compressed.

Claim 38 (currently amended): The device receiver of Claim 36, wherein the received audio data has been encrypted.

Claim 39 (currently amended): The device receiver of Claim 1, wherein the received data is alphanumeric data that has been converted from analog form to digital form.

Claim 40 (currently amended): The device receiver of Claim 39, wherein the alphanumeric data is converted to voice data by a speech synthesizer.

Claim 41 (currently amended): The device receiver of Claim 1, wherein the data is in digital form, has been encrypted and compressed, and further comprising a decryptor for decrypting the data.

Claim 42 (currently amended): The device receiver of Claim 41, wherein said system has a decompression algorithm to decompress data that has been compressed at a transmitter prior to being broadcast.

Claim 43 (currently amended): The device receiver of Claim 41, wherein the decryptor is enabled by a key received by the tuner.

Claim 44 (currently amended): The device receiver of Claim 41, wherein the decryptor is enabled by a key device operatively connected to the decryptor.

Claim 45 (currently amended): The device receiver of Claim 1, wherein the user interface is voice activated.

Claim 46 (currently amended): The device receiver of Claim 1, wherein the user interface includes:

a manual input device adapted to be mountable on an automobile steering wheel; and  
a link from the manual input device to the controller.

pa-937805

Application No.: 08/977,846

8

Docket No.: 549222000101

Claim 47 (currently amended): The device receiver of Claim 1, wherein the user interface includes a control for determining a speed at which the speech producing sub-system outputs the analog signal.

Claim 48 (currently amended): The device receiver of Claim 1, wherein the tuner channel skips to tune to a particular transmitter.

Claim 49 (currently amended): The device receiver of Claim 1, further comprising:  
an amplifier connected to the speech producing sub-system for amplifying the analog signal; and  
means for converting the amplified signal to sound.

Claim 50 (currently amended): The device receiver of Claim 1, further comprising means for connecting the receiver to an automobile radio set.

Claim 51 (currently amended): The device receiver of Claim 1, further comprising means for designating by a broadcaster of the broadcast signal a hierarchy for the database.

Claim 52 (currently amended): The device receiver of Claim 1, wherein the memory stores the data received in a random access memory up to the capacity of the random access memory before transferring said data to one of a disk medium or a tape medium.

Claim 53 (currently amended): The device receiver of Claim 52, wherein the tape medium is a digital audio tape.

Claim 54 (currently amended): The device receiver of Claim 52, wherein the disk medium is a magnetic disk.

Claim 55 (currently amended): The device receiver of Claim 52, wherein the disk medium is a magnetic-optical disk.

Claim 56 (currently amended): The device receiver of Claim 52, wherein the disk medium is an optical disk.

pa-937805

Application No.: 08/977,846

9

Docket No.: 549222000101

Claim 57 (currently amended): The device receiver of Claim 1, wherein a speed of transmission of the data in the broadcast signal is varied to most efficiently use the available bandwidth.

Claim 58 (previously presented): A method for information dissemination comprising the acts of:

- receiving the information;
- storing the received information in a database;
- providing a set of menus describing the database;
- accepting selections from the set of menus;
- selecting data from the database in response to the accepted selection;
- providing the selected data in digital form; and
- converting the selected data to an analog signal.

Claim 59 (previously presented): The method of Claim 58, wherein the received information is transmitted by a broadcast signal.

Claim 60 (new): The receiver of Claim 1, wherein the memory is sufficient to store data representing the content of at least one entire program.

Claim 61 (new): The method of Claim 58, wherein the stored information includes the content of at least one entire program.

pa-937805